

CLIMATOLOGICAL DATA FOR MARCH, 1912.

DISTRICT No. 1, NORTH ATLANTIC STATES.

WILFORD M. WILSON, District Editor.

GENERAL SUMMARY.

The month was somewhat colder than usual, and, in many sections, was the wettest March on record. The weather was decidedly unfavorable to agricultural interests throughout the month in the southern sections, both on account of low temperatures and excessive rainfall, the former cause predominating during the early part of the month, and the latter preventing the tilling of the soil when the temperatures had returned to the normal. The prevailing low temperatures have made the season about three weeks later than usual in most parts of the district, and the ground is so wet that farmers will lose still more time before planting and cultivating can be carried on.

The following table summarizes the leading features of meteorological interest for the various sections of the district:

States or parts of States within district No. 1	Temperature.				Precipitation.				Average number of—	
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest total.	Least total.	Rainy days.	Clear days.
New England.....	30.0	-1.4	66	-28	5.53	+1.64	9.59	1.47	10	16
New York.....	39.0	-2.9	69	-27	4.64	+1.26	10.05	1.90	11	14
Pennsylvania.....	44.1	-2.9	72	-8	5.39	+1.68	9.71	2.27	13	11
New Jersey.....	36.9	-1.6	73	3	7.61	+3.66	9.62	5.95	14	9
Maryland, Delaware, and District of Columbia.....	40.1	-2.4	78	9	8.77	+3.04	9.08	4.89	13	12
West Virginia.....	38.2	-3.4	76	6	4.55	+1.60	6.74	1.78	11	9
Virginia.....	41.2	-2.6	76	11	5.66	+2.12	8.02	3.21	12	10

TEMPERATURE.

The average temperature for the district was about 36°, which is more than 2° less than the normal and nearly equal to the average for March last year. The deficiency in temperature was least near the coast and increased gradually toward the interior. The month was slightly warmer than usual at several stations in eastern Massachusetts, but along the western border of the district as far north as central New York the average temperatures were generally from 4° to 6° below the normal. Monthly means ranged from 15.5° at Patten, Me., to 45.6° at Eastville, Va.

Unusually cold weather prevailed at the beginning of the month and continued for 6 days. During this period temperatures of zero or below were frequent in the northern States, while in the southern extremity of the district the temperature was below freezing most of the time. Temperatures were generally above normal on the 7th and 8th and below normal for the next 3 days. A second period of mild weather began on the 12th and continued

until the 20th. On the 15th, 18th, and 19th the temperature rose to 50° or above over most of the district, reaching 60° to 70° in the warmest sections. A very marked change to colder occurred about the 21st and the temperature remained decidedly below normal for 6 days. Remarkably cold weather occurred on the 23d and 26th, particularly on the latter date, when temperatures more than 10° below zero were observed at some interior stations southward nearly to Pennsylvania, and temperatures nearly 10° below freezing occurred in the warmest sections. Mild weather prevailed after the 26th, and at most stations the highest temperatures of the month occurred on the 28th or later.

No unusually high temperatures occurred during the month, but the minimum temperatures in many instances exceeded all former records for March. In the New York section the minimum temperature was -27°, which is 2° below the lowest previous March record.

The extremes of temperature for the district were 78° at Cambridge, Md., on the 18th and -28° at Bloomfield, Vt., on the 1st.

PRECIPITATION.

The average precipitation for the district was 5.74 inches and was nearly equal to the total amount for both January and February. As compared with the normal precipitation the general deficiency of the two preceding months was more than counterbalanced by the excess of March. The average precipitation was more than 4 inches in all the States except Vermont, where it was 3.49 inches; the greatest average amount was 8.10 inches in the State of Rhode Island. The average for New Jersey, 7.61 inches, was the greatest for March in a period of 28 years, and in southeastern Pennsylvania all previous March records were exceeded. The total precipitation at Philadelphia, 9.10 inches, was the greatest ever recorded for March in 92 years. Less than 2 inches of precipitation was reported by only 4 stations, as follows: Millinocket, Me., 1.98; Patten, Me., 1.47; De Ruyter, N. Y., 1.90; and Upper Tract, W. Va., 1.78 inches. The number of stations in the district reporting 6 inches or more was 149 and included all the stations in Rhode Island, all but 3 in Connecticut, and all but 1 in New Jersey. The greatest amount reported by any station was 10.05 inches at Scarsdale, N. Y.

The number of days with precipitation was above the average for March, and not less than 5 storms occurring after the 11th produced remarkably heavy falls of rain or snow in practically all parts of the district. The longest periods of generally fair weather did not exceed 3 or 4 days, while in some instances the storm periods continued for 5 or 6 days. On Long Island and the

sections nearby the number of days with measurable precipitation averaged about 15.

Until the 12th the precipitation was comparatively light, averaging less than one-half inch in many sections. However, there were frequent light snows in this period in all parts of the district excepting the regions farthest from the coast, where precipitation occurred on only 1 or 2 days. Even in Virginia snow fell on several dates at most stations, particularly on the 1st, 3d, 4th, and 6th.

Heavy rains turning to snow fell on the 12th-13th and excessive rates of precipitation were observed at several stations in Maine, New Hampshire, Connecticut, New York, Pennsylvania, and New Jersey. Much of the coast region from Maryland to Massachusetts received more than 3 inches of rain within these 2 days. However, the principal storm of the month was the one that occurred on the 15th. On that date rain fell at excessive rates over large areas near the coast, especially from New Jersey to Massachusetts. More than 2.50 inches of rain were recorded at 8 stations in Massachusetts, 1 in Connecticut, 3 in New York, 5 in Pennsylvania, 6 in New Jersey, 5 in Maryland, 2 in Delaware, and 1 in Virginia. The greatest 24-hour precipitation for the month was 4.06 inches at Tuckerton, N. J., on the 15th.

The weather was fair in most sections from the 16th to the 19th, but a storm reached the western part of the district on the 19th and did not pass beyond the coast region until the 21st or later. This caused 4 to 8 inches of snow in the interior of New York and New England and heavy rains elsewhere, while from 1 to 3 inches of snow, in addition to the rain, fell in New Jersey. A storm of similar character, though attended by less snowfall, reached the district about 3 days later, but moved more rapidly eastward, so that the precipitation was confined chiefly to the 24th. This was followed by colder weather with snow as far south as Maryland and Virginia, where several stations reported from 1 to 3 inches. The storm of the 29th was preceded by a marked rise in temperature that caused the precipitation of that date to assume the form of rain throughout the district. Heavy rains again set in over the extreme western sections on the 31st.

SNOWFALL.

The total snowfall was not unusual in the northern States, but it was much above the March average in the southern part of the district. More than 6 inches of snow fell at most of the stations in Virginia, Maryland, Delaware, and New Jersey. At Solomons, Md., the snowfall of the month amounted to 13.5 inches. Over much of New York and northern New England the snowfall exceeded 15 inches; the greatest amount was 23 inches at Alstead Center, N. H. Southward to Pennsylvania, except over the coast region, the ground remained well covered with snow until the warm period of the 18-20th. In the southern States of the district the snow melted soon after falling and had practically disappeared by the end of the first decade.

RIVER CONDITIONS.

In the interior of the northern sections the precipitation of February and March was not sufficient to produce unusually high river stages during the latter month. But the mild weather of the middle of the month produced a peculiar condition in the Hudson River near

Albany and Troy, causing the ice to break up and gorge below these cities on the 16th. This condition was foreseen by the official in charge of the Weather Bureau office at Albany and a warning was issued at 2 p. m. on the 15th stating that the water would reach and pass the flood stage of 12 feet at Albany and 14 feet at Troy. Although it was said that there was not sufficient water in the upper watersheds to justify a flood warning, the ice gorged as expected and the water rose to the height of 13.2 feet at Albany at 1.20 p. m. of the 16th and to 16.5 feet at Troy at 7.45 a. m. of the same date. So sudden and dangerous a rise of water is unusual in a stream like the Hudson, but the warning was so generally heeded that there was very little loss of property that could have been avoided.

The following abridged report of the official in charge, local office United States Weather Bureau, Harrisburg, Pa., is given to illustrate the conditions that prevailed on the rivers in the southern part of the district:

A number of ice gorges formed in the Susquehanna River below Sunbury and in the North and West Branches near the close of February, due to the fact that there was not sufficient water in the streams to float the ice. The two most important of these were located in the main river at Safe Harbor, and in the West Branch above Williamsport. Owing to the cold weather and the scarcity of rain during the first half of the month, there were no important changes in river conditions from March 1 to 15. The rains and mild weather of the 15th caused a decided rise in the Susquehanna River and its tributaries, lifting and floating the gorges at Linden and Safe Harbor, as well as all the smaller, gorges, and dislodging practically all ice from along the river shores and on the islands. Some flooding occurred in the gorged districts before the ice started, but the damage was confined to a limited area and was not serious. The heavy rains and warm weather of the 28-30th caused rapid melting of snow in the mountains and a decided rise resulted in all the streams of the system. The month closed with high waters in all the rivers, but the flood stage was not reached at any station except Wilkes-Barre, where the water rose to the height of 22 feet, 2 feet above flood stage, about noon on the 31st. Considering the unusually large quantity of heavy ice in the streams at the opening of spring, it is surprising that so little damage was done.

SUNSHINE.

The percentage of the possible sunshine averaged 56, which, excepting the month of February, is the highest average for the district since last September. In the southern part of the district the amount of sunshine was unusually small, even less than in the northern States, where it was much in excess of the normal. The amount of clear weather in the several sections was more uniform than usual, the extremes in sunshine being 238 hours at Boston, Mass., and 161 hours at Mount Weather, Va. There was an average of 12 days with 80 per cent or more of the possible sunshine, and 9 with 20 per cent or less. The average number of clear days was 12, partly cloudy 9, and cloudy 10.

SOME EFFECTS OF AIR DRAINAGE IN RIVER VALLEYS.

[By JOHN R. WEEKS, Local Forecaster, Binghamton, N. Y.]

In a paper devoted to the influence of air drainage on the temperature of certain stations in the Rocky Mountains, Prof. A. J. Henry says:¹

It is probable that few places on the globe afford the opportunities for air drainage that are to be had in the parks of Colorado. To the effects of this drainage of cold air from the mountain sides and down the numerous small ravines, locally known as "draws," must be added the effect of the powerful nocturnal radiation which takes place under the clear skies and dry air of Colorado.

In the same article, speaking of two stations, Corona and Frazer, Colo., the one at an elevation of 11,660 feet

¹ Bulletin Mount Weather Observatory, vol. 4, pt. 3, pp. 104 and 105.

TABLE 1.—Climatological data for March, 1912. District No. 1, North Atlantic States.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeasured.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of clear days.		
Maine.																			
Bar Harbor.	Hancock.	20	26	30.6	-0.6	56	20	-5	6	42	5.95	+0.39	2.40	8.5	10	20	2	9	sw.
Cornish.	York.	778	57	29.6	+0.3	60	20	-17	6	56	5.75	+1.37	2.05	11.0	8	18	5	8	nw.
Eastport.	Washington.	53	40	28.8	-0.1	53	28	2	4	37	3.76	-0.52	1.09	9.5	13	11	8	12	w.
Fairfield.	Somerset.	90	27	26.0	-1.8	54	28	-17	6	46	3.88	+0.88	1.43	8.5	6	16	6	9	do.
Farmington.	Franklin.	450	15	25.4	-4.8	51	28	-20	6	48	3.81	-0.80	1.54	8.5	7	14	2	7	nw.
Gardiner.	Kennebec.	163	20	29.0	-1.3	59	20	-18	6	56	5.41	+1.27	2.19	6.0	11	18	2	11	sw.
Greenville.	Piscataquis.	1,000	8	20.9	-47	8 ^t	-14	6	44	3.04	-0.75	1.75	16.5	8	18	5	8	do.	
Houlton.	Aroostook.	362	10	22.8	45	9 ^t	-16	6	42	3.21	-2.00	8.0	4	18	5	8	w.		
Lewiston.	Androscoggin.	186	38	27.6	-1.2	57	28	-13	6	47	5.26	+0.62	2.08	10.0	9	17	6	8	nw.
Madison.	Somerset.	257	9	21.2	-	50	29	-22	6	47	4.82	-1.36	8.5	6	22	1	8	nw.	
Millinocket.	Penobscot.	336	9	25.9	-	53	20	-10	7	44	1.98	-0.89	8.0	6	13	3	15	nw.	
North Bridgton.	Cumberland.	450	19	28.4	-0.5	54	28 ^t	9	6	38	5.13	+0.28	1.91	16.0	7	16	6	9	ne.
Orono.	Penobscot.	129	43	26.9	-0.7	51	29 ^t	-20	6	48	3.93	-0.22	1.24	3.0	9	14	9	8	do.
Patten.	do.	550	10	15.5 ^a	42 ^c	28	-18 ^e	5 ^t	6	56	1.47	-1.25	2.02	2.2	4	20 ^c	1	7 ^d	do.
Portland.	Cumberland.	99	41	30.2	-1.8	58	31	3	6	36	6.34	+2.59	2.85	7.8	11	16	5	10	nw.
Presque Isle.	Aroostook.	506	19	25.8	-1.7	51	31	-10	4 ^t	38	3.19	-0.27	1.31	6.5	7	20	4	7	nw.
Rumford Falls.	Oxford.	90	17	28.3	-1.6	53	28 ^t	-15	6	46	4.46	+0.66	1.67	7.5	6	20	3	8	w.
Winslow.	Kennebec.																		Hollingsw'th & Whitney Co.
New Hampshire.																			
Allstead Center.	Cheshire.	1,120	8	25.2	-	50	18 ^t	-3	4 ^t	30	4.56	-	1.23	23.0	9	16	5	10	nw.
Benton.	Grafton.		3																Frank Dewing.
Bethlehem.	do.	1,470	20	22.8	-3.7	50	18 ^t	-11	3 ^t	34	2.89	-0.08	0.63	13.5	9	16	6	9	sw.
Concord.	Merrimack.	350	52	29.5	-2.0	58	18 ^t	-9	6	39	4.89	+1.49	1.65	11.3	9	15	7	9	nw.
Durham.	Stafford.	88	17	31.0	-0.5	64	31	-7	6	42	4.69	+0.26	2.08	13.0	7	21	1	9	nw.
Franklin.	Merrimack.	440	13	29.0	-2.1	63	19	-13	6	48	5.09	+1.85	1.50	11.8	9	20	2	9	nw.
Grafton.	Grafton.	863	26	24.8	-2.7	55	18 ^t	-22	6	50	3.85	+0.84	1.20	10.0	8	21	3	7	nw.
Hanover.	do.	603	78	25.1	-2.3	55	19	-17	6	48	3.23	+0.70	0.79	11.5	10	15	6	10	nw.
Keene.	Cheshire.	506	27	28.6	-2.0	59	18 ^t	-10	6	46	4.64	+1.66	1.19	16.0	9	19	3	9	nw.
Nashua.	Hillsboro.	125	27																Jackson Co.
Newton.	Rockingham.	24	30.8	-1.0	62	18 ^t	-6	6	43	5.46	+1.86	2.50	8.0	8	10	15	6	sw.	
Plymouth.	Grafton.	500	24	25.8	-1.1	52	18 ^t	-19	6	48	4.20	+0.46	1.11	12.5	7	14	3	14	w.
Vermont.																			
Bloomfield.	Essex.	5	19.5		49	17	-28	1	53	2.85	-	0.79	12.0	10	16	7	8	s.	
Cavendish.	Windsor.	910	9	26.5 ^a	55	28	-16	6	45	3.81	-	1.11	18.5	6	22 ^a	6 ^a	w.	Lyman Falls Power Co.	
Chelsea.	Orange.	840	17	22.2	-2.8	57	19	-23	6	50	3.31	-0.44	0.90	14.0	9	19	1	11	n.
Manchester.	Bennington.	980	13	26.8	-	51	19 ^t	-5	6	34	3.22	-	2.03	8.5	6	13	10	8	sw.
Somerset.	Windham.	2,066	0	23.2	-	54	31	-26	6	59	4.60	-	1.03	14.6	8	14	7	10	sw.
St. Johnsbury.	Caledonia.	711	19	24.4	-2.1	59	28	-20	4 ^t	51	2.76	-0.26	0.88	14.1	10	14	9	8	nw.
Woodstock.	Windsor.	700	20	24.1	-3.6	53	18	-20	4	44	3.90	+0.68	1.04	16.0	6	10	8	13	do.
Massachusetts.																			
Amherst.	Hampshire.	222	23	31.0	-1.7	60	31	1	6	34	5.70	+2.22	1.32	12.0	8	21	3	7	nw.
Blue Hill.	Norfolk.	640	28	32.2	-0.1	59	31	6	4	29	5.26	+1.05	1.14	10.9	15	13	7	11	nw.
Boston.	Suffolk.	124	42	36.0	+1.0	64	31	11	4	34	4.18	+0.10	1.13	9.1	13	14	6	11	nw.
Chestnut Hill.	do.	124	32	34.6	+0.3	63	31	5	6	37	5.36	+1.31	1.10	9.8	13	22	1	8	do.
Clinton.	Worcester.	370	16	31.8	-	59	15 ^t	-1	5	42	6.30	-	1.88	10.5	12	17	10	10	nw.
Fall River.	Middlesex.	139	22	32.2	-2.1	63	31	0	6	39	5.03	+2.14	1.90	10.6	13	11	10	10	nw.
Fitchburg.	Bristol.	200	46	35.0	-1.0	58	18 ^t	10	4	23	8.73	+4.20	3.30	10.5	15	7	17	7	nw.
Framingham.	Worcester.	550	29	32.2	+0.4	60	31	0	6	33	5.39	+1.52	1.31	13.0	11	20	2	9	nw.
Iyannis.	Middlesex.	160	32	34.2	-	63	31	0	6	38	6.33	+1.84	2.29	9.8	11	13	9	11	sw.
Lawrence.	Barnstable.	31	21	34.9	-1.8	59	20	13	1	31	6.16	+1.46	1.5	5.0	12	9	13	9	sw.
Lowell.	Essex.	51	28	31.8	-0.8	62	31	1	6	39	5.68	+2.00	1.71	9.4	11	12	12	7	sw.
Middleboro.	Middlesex.	100	27	33.6	+1.1	59	19 ^t	-1	6	34	5.51	+1.28	2.00	9.0	9	10	9	12	nw.
Monson.	Plymouth.	53	26	34.6	+0.4	60	16	0	6	30	7.47	+3.07	2.88	6.0	14	7	12	12	nw.
Nantucket.	Hampshire.	15	26	35.2	-1.6	55	28	15	3	26	5.85	+1.87	1.23	6.9	16	12	8	11	sw.
New Bedford.	Bristol.	85	100																City Engineer.
Norfolk.	Hampshire.	244	9																Ruby H. Martyn.
Northampton.	Plymouth.	205	4																D. E. Hoxie.
Plymouth.	Plymouth.																		Laura B. Knapp.
Provincetown.	Barnstable.	40	25	33.5	-2.1	54	20 ^t	13	3	21	6.01	+1.87	1.18	2.0	8	19	0	12	sw.
Rockport.	Essex.	25	10	33.8	-	58	28	11	3	25	5.02	-	1.25	0.6	10	12	9	10	nw.
Rutland.	Worcester.	1,160	10	28.6 ^a	58 ^c	31	4 ^t	3	38	4.85	-	1.34	10.2	11	19	4	8	do.	
South Egremont.	Berkshire.	764	10																Roscoe C. Taft.
Turners Falls.	Franklin.	200	21																Turners Falls Co.
Westboro.	Worcester.	298	38	35.2	+1.2	63	31	-3	6	37	6.46	+2.04	2.35	10.5	11	17	7	10	sw.
Williamstown.	Berkshire.	711	31	28.2	-0.8	55	18 ^t	-2	6	36	3.28	+0.20	0.72	12.0	7	12	10	9	nw.
Worcester.	Worcester.	518	20	33.2	-1.0	60	31	9	4	23	4.23	-0.16	1.09	9.1	11	16	5	10	nw.
Rhode Island.																			
Block Island.	Newport.	26	32	34.8	-1.1	55	15	15	3	20	7.65	+3.28	3.03	2.2	14	13	5	13	nw.
Bristol.	Washington.	53	26	34.6	-0.7	55	28	11	6	24	8.04	+3.61	3.00	8.5	15	18	4	9	sw.
Kingston.	Newport.	250	23	32.6	-1.7	60	28	0	6										

TABLE 1.—Climatological data for March, 1912. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing wind direction.	Observers.
				Mean.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmetted.	Number of rainy days, 0.01 inch or more.	Number of part cloudy days.	Number of clear days.				
<i>Connecticut—Contd.</i>																				
Storrs.....	Tolland.....	640	24	33.6	+ 0.9	60	31	5	6	40	7.29	+ 3.25	2.11	5.0	11	18	6	7	w.	Agr. Exp. Station.
Torrington.....	Litchfield.....	625	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. E. H. Forbes.
Voluntown.....	New London.....	260	28	30.6	- 4.2	55	15†	2	6	27	7.42	+ 2.93	1.83	.....	8	19	2	10	n.w.	J. L. Herbert.
Waterbury.....	New Haven.....	400	37	35.2	+ 1.7	64	29†	4	6	37	7.87	+ 3.62	2.68	10.5	11	.....	.....	.....	.....	N. J. Welton.
<i>New York.</i>																			.....	.....
Addison.....	Steuben.....	1,000	22	29.8	- 4.6	65	31	- 6	6	42	2.91	+ 0.50	0.91	12.5	11	18	6	7	sw.	Dr. H. R. Ainsworth.
Albany.....	Albany.....	97	91	30.2	- 1.9	58	31	5	4	30	3.71	+ 0.97	1.40	8.3	10	16	8	7	n.w.	U. S. Weather Bureau.
Amsterdam.....	Montgomery.....	277	8	26.2	.....	55	31	- 8	6	35	3.52	.....	0.95	11.0	8	20	4	7	w.	Emery Elwood.
Athens.....	Greene.....	90	10	31.6	- 3.6	63	31	- 1	6	37	5.17	+ 2.35	1.62	9.5	8	19	6	6	s.	E. C. Brooks.
Ballston Lake.....	Saratoga.....	400	8	27.0	.....	56	31	- 9	6	39	4.24	.....	0.99	11.4	9	15	7	9	w.	George R. Schaefer.
Bedford.....	Westchester.....	450	21	34.9	- 2.3	69	31	9	3	32	7.86	+ 4.36	1.90	6.0	12	18	4	9	.....	Dr. L. Rosenberg.
Bearston.....	Delaware.....	1,214	0	26.8	.....	59	19	- 7	5	51	3.5	4.36	1.21	10.1	8	16	2	13	sw.	John Q. Barlow.
Binghamton.....	Broome.....	875	21	28.3	- 3.7	60	31	- 7	6	33	3.37	- 0.73	0.86	13.2	13	4	8	19	n.w.	U. S. Weather Bureau.
Bouckville.....	Madison.....	1,350	15	24.4	- 6.3	51	31	- 8	4	34	2.13	+ 1.42	0.50	9.5	8	13	12	12	n.w.	L. W. Griswold.
Boyd's Corners.....	Putnam.....	560	30	.....	.....	.....	.....	.....	.....	.....	7.64	+ 3.00	.....	.....	.....	.....	.....	.....	.....	Thomas Manning.
Carmel.....	do.....	500	20	30.4	- 4.4	61	28	4	6	34	7.60	+ 2.71	2.51	6.2	15	16	1	14	n.w.	Do.
Chatham.....	Columbia.....	470	11	26.6	- 5.0	61	31	- 2	6	35	3.84	+ 1.44	1.41	8.3	9	17	7	7	n.	Morton R. Tank.
Cooperstown.....	Otsego.....	1,250	58	24.8	- 3.2	54	19	- 16	6	41	4.41	+ 1.59	0.93	18.5	11	18	8	5	s.	Miss Elizabeth C. Keese.
Corinth.....	Saratoga.....	542	10	.....	.....	.....	.....	.....	.....	.....	5.46	.....	1.14	.....	.....	.....	.....	.....	.....	A. M. Hollister.
Cortland.....	Cortland.....	1,129	50	26.7	- 3.8	58	31	- 11	6	39	2.73	+ 0.08	0.94	11.9	14	13	7	11	n.w.	F. G. Baker.
Cutchogue.....	Suffolk.....	32	13	35.0	- 2.6	59	29	14	3	25	9.85	+ 4.26	2.90	8.0	14	15	7	9	n.w.	William A. Fleet.
De Ruyter.....	Madison.....	1,300	9	24.8	- 5.6	55	31	- 20	6	47	1.90	- 1.18	0.67	9.4	9	18	3	10	s.	B. D. Crandall.
Elmira.....	Chemung.....	883	29	28.4	- 6.1	61	19	0	6	27	3.24	+ 0.80	0.82	13.6	14	9	9	9	sw.	Thurber A. Brown.
Ephratah.....	Fulton.....	602	0	.....	.....	.....	.....	.....	.....	.....	2.55	.....	0.60	7.0	7	10	11	11	w.	Victor Gennett, Jr.
Glens Falls.....	Warren.....	340	21	26.5	- 4.7	54	19	- 13	6	44	4.87	+ 1.34	1.63	16.2	10	15	7	9	n.	Prof. C. L. Williams.
Gloversville.....	Fulton.....	850	20	25.4	- 3.8	50	31	- 12	6	38	3.19	- 0.75	0.50	8	12	14	5	5	w.	W. L. McLean.
Greenfield Center.....	Saratoga.....	314	14	26.3	- 4.7	52	31	- 10	6	38	3.5	- 0.89	1.10	5.5	6	15	7	9	sw.	S. E. Darrow.
Greenwich.....	Washington.....	425	25	28.5	- 4.2	57	19	- 3	6	35	5.49	+ 1.87	1.45	11.1	11	13	11	7	n.	Homer J. Whitecomb.
Griffith Corners.....	Delaware.....	2,260	12	28.4	- 3.3	60	31	- 12	6	42	3.76	+ 0.89	1.00	5.5	6	15	7	9	w.	Harold O. Judd.
Haskinville.....	Steuben.....	17	.....	.....	.....	.....	.....	.....	.....	.....	2.28	- 0.19	0.65	13.1	9	.....	.....	.....	.....	W. G. Collins.
Homer.....	Cortland.....	1,096	21	25.0	- 6.2	57	31	- 14	6	42	3.88	.....	1.40	14.3	12	13	6	12	n.w.	Charles C. Mortimer.
Hoosick Falls.....	Rensselaer.....	410	10	.....	.....	.....	.....	.....	.....	.....	4.35	.....	1.40	14.2	14	21	3	7	w.	Sanford L. Cluett.
Indian Lake.....	Hamilton.....	1,705	13	21.3	- 5.6	48	17	- 27	6	56	2.15	- 0.88	1.10	11.5	7	20	2	9	w.	Lester Severe.
Jeffersonville.....	Sullivan.....	1,240	9	30.0	.....	60	31	- 4	6	46	5.07	.....	1.32	10.0	7	18	7	6	w.	Charles Willert, jr.
Little Falls.....	Herkimer.....	924	14	24.3	- 5.7	54	31	- 4	3	37	2.42	- 0.87	0.70	14.5	9	21	3	7	w.	O. J. Demster.
Mohonk Lake.....	Ulster.....	1,245	16	29.8	- 3.9	56	18	- 8	5	27	6.96	+ 2.29	2.00	11.0	11	8	10	13	sw.	A. K. Smiley.
Morehouseville.....	Hamilton.....	1,697	4	21.6	.....	50	19	- 20	3	50	3.13	.....	0.74	10.5	10	21	6	4	w.	Theo. C. Remonda.
Morrisville.....	Madison.....	1,325	20	24.7	.....	53	31	- 15	6	42	3.70	.....	1.50	17.0	9	17	10	4	sw.	Prof. I. M. Charlton.
Mount Hope.....	Westchester.....	200	15	36.0	- 2.0	63	31	11	3	28	7.95	+ 3.64	1.80	17.0	10	8	14	9	.....	W. A. Cornelius.
Newark Valley.....	Tioga.....	825	25	.....	.....	.....	.....	.....	.....	.....	3.53	.....	0.90	12.0	10	9	13	13	.....	Lyman D. Clinton.
New Berlin.....	Chenango.....	1,090	5	.....	.....	.....	.....	.....	.....	.....	3.69	.....	0.61	15.4	13	13	7	11	.....	Charles F. Sarle.
Newcomb.....	Essex.....	1,600	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Edward Spain.
New Lisbon.....	Otsego.....	1,234	22	24.2	- 5.0	56	31	- 16	6	46	4.00	+ 0.88	0.94	14.0	10	7	5	19	s.	G. A. Yates.
New York City.....	New York.....	314	87	36.8	- 0.7	65	29	13	3	23	5.68	+ 1.58	1.28	4.2	16	8	10	13	n.	U. S. Weather Bureau.
North Creek.....	Warren.....	1,002	4	24.2	.....	62	19	- 23	6	51	2.46	.....	0.65	12.0	7	18	6	7	.....	W. G. Kenwell.
Northville.....	Fulton.....	742	10	.....	.....	.....	.....	.....	.....	.....	4.81	.....	1.10	16.0	10	15	6	10	.....	P. C. Picard.
Oneonta.....	Otsego.....	1,112	18	28.3	- 5.8	57	19†	- 6	6	37	4.76	+ 1.29	0.81	13.8	12	15	6	10	sw.	H. W. Lee.
Oxford.....	Chenango.....	916	47	27.2	- 4.2	55	19†	- 11	6	42	3.90	+ 1.04	0.83	15.0	12	4	20	7	s.	J. P. Davis.
Oyster Bay.....	Nassau.....	40	8	38.3	.....	65	29†	13	3	30	7.26	.....	1.45	2.0	9	17	3	11	sw.	Prof. Thos. Colby.
Port Jervis.....	Orange.....	470	28	33.0	- 1.3	63	31	4	6	40	2.55	+ 1.75	1.21	6.0	12	16	7	8	n.w.	W. H. Nearpass.
Rome.....	Oneida.....	445	16	.....	.....	.....	.....	.....	.....	.....	3.40	.....	0.45	14.1	13	14	2	15	w.	John O'Mara.
Roslyn.....	Nassau.....	215	0	35.7	.....	67	30	12	3†	35	9.98	.....	1.98	6.8	18	14	6	11	n.w.	C. H. Hechler.
Salsbury.....	Herkimer.....	1,526	15	21.2	- 7.7	50	28	- 15	6	41	3.25	- 0.70	1.10	12.0	9	15	12	4	w.	Joseph Ryan.
Scarsdale.....	Westchester.....	200	8	35.8	.....	68	29	10	3	31	10.05	.....	3.50	8.0	14	15	6	10	sw.	C. H. Wilmarth.
Setauket.....	Suffolk.....	40	27	36.1	- 0.9	64	29	15	3	26	7.77	+ 3.30	2.09	8.0	11	15	4	12	w.	Selah B. Strong.
Sherburne.....	Chenango.....	5	.....	.....	.....	.....	.....	.....	.....	.....	3.40	.....	0.45	14.1	13	14	2	15	n.w.	E. B. Collins.
Southampton.....	Suffolk.....	31	11	35.4	- 2.5	56	15†	14	3	25	9.72	+ 5.52	3.91	7.6	18	12	11	8	n.w.	W. L. Jagger.
Southeast Reservoir.....	Putnam.....	310	7	.....	.....	.....	.....	.....	.....	.....	6.93	+ 2.03	.....	.....	.....	.....	.....	.....	.....	Thomas Manning.
Spier Falls.....	Otsego.....	1,300	0	24.9	.....	55	31	- 23	6	52	3.64	.....	0.91	13.1	10	14	11	6	s.	F. H. Bildbeck.
Trenton Falls.....	Saratoga.....	400	11	25.8	.....	52	20	- 10	3	35	3.93	+ 0.76	1.14	12.5	7	9	16	6	sw.	George E. Fifield.
Tribeshill.....	Oneida.....	751	9	.....	.....	.....	.....	.....	.....	.....	2.53	.....	0.52	.....	.....	.....	.....	.....	.....	C. W. Young.
Utica.....	Oneida.....	537	46	.....	.....	.....	.....	.....	.....	.....	3.20	.....	0.80	12.0	6	.....	.....	.....	.....	R. S. Marshall.
Wading River.....	Suffolk.....	112	6	36.0</																

TABLE 1.—Climatological data for March, 1912. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.									
<i>Pennsylvania—Contd.</i>																				
Mauch Chunk.	Carbon.	634	23	34.6	—2.0	67	31	11	1†	40	5.69	+ 0.93	1.14	8.5	13	16	n.	F. C. Wintermute.		
Mifflintown.	Juniata.	445	8	34.8	—	67	31	12	3	38	4.64	—	1.16	8.0	14	14	w.	Wellington Smith.		
Milford.	Pike.	455	9	31.0	—	66	31	4	3†	42	6.23	—	1.63	2.0	11	16	s.	Mrs. Alla Doughty.		
Montrose.	Susquehanna.	1,658	8	27.4	—	57	31	—	4	6	34	2.40	—	0.35	11.0	8	15	s.	Silas Jagger.	
Philadelphia (1).	Philadelphia.	117	41	39.5	—0.5	67	29	17	3	26	9.56	+ 5.65	2.79	4.1	15	6	n.	U. S. Weather Bureau.		
Pocono Lake.	Monroe.	1,662	10	29.0	—4.1	56	29†	—	8	23	4.15	+ 0.65	1.14	7.0	8	6	w.	Pocono Lake Ice Co.		
Reading.	Berks.	280	39	37.0	—2.2	68	29	14	3	35	6.24	+ 2.73	1.58	4.7	15	16	sw.	Emil L. Nuebling.		
Scranton.	Lackawanna.	805	12	32.8	—2.1	62	19	10	3	33	7.02	+ 3.90	2.10	7.8	15	4	13	n.	U. S. Weather Bureau.	
Selinsgrove.	Snyder.	455	24	34.8	—3.7	66	31	11	3	36	5.51	+ 1.45	1.26	9.5	14	0	20	se.	J. M. Boyer, C. E.	
State College.	Center.	1,191	24	31.9	—3.5	65	31	—	7	30	4.46	+ 0.82	1.34	5.6	14	12	n.	Prof. Wm. Frear.		
Towanda.	Bradford.	754	17	30.1	—4.6	62	31	—	6	6	40	4.09	+ 0.68	1.60	12.4	14	12	n.	Hiram E. Bull, C. E.	
Wellsboro.	Tioga.	1,327	35	29.2	—3.1	62	29	13	3	28	8.12	+ 3.68	1.30	18.5	9	16	5	n.	O. L. White.	
West Chester.	Chester.	455	58	37.0	—1.2	67	29	13	3	28	9.05	+ 5.18	2.70	6.5	15	11	8	n.	J. C. Green, D. D. S.	
Williamsport.	Lycoming.	530	22	33.8	—2.4	65	31	10	2†	34	3.95	+ 0.37	0.92	13.3	14	20	2	se.	Henry H. Guise.	
<i>New Jersey.</i>																				
Atlantic City.	Atlantic.	16	39	37.8	—1.0	64	20	17	3	25	6.97	+ 3.24	2.14	7.3	17	10	9	12	ne.	U. S. Weather Bureau.
Bayonne.	Hudson.	50	22	36.8	—1.2	65	29	14	3	26	7.55	+ 3.32	1.74	4.8	15	10	8	13	...	Erskine R. Eadie.
Belvidere.	Warren.	289	22	36.4	—0.4	68	19	12	3	37	7.02	+ 2.98	1.63	5.8	14	9	12	10	...	Samuel J. Hixson.
Bergen Point.	Hudson.	37	15	37.2	—0.6	67	29	14	3	27	7.33	+ 3.11	1.74	6.0	14	8	10	13	n.	Dr. Wm. H. Mitchell.
Boonton.	Morris.	230	22	—	—	67	29	16	3	35	7.82	+ 4.08	2.24	8.3	13	13	13	n.	Foster Peer.	
Bridgeton.	Cumberland.	30	31	40.1	—1.0	72	29	16	3	35	6.98	+ 2.51	2.13	8.0	15	10	10	11	n.	Henry A. Jorden.
Burlington.	Burlington.	12	26	—	—	68	29	11	2	37	8.06	+ 3.98	2.16	6.3	13	10	8	13	n.	D. S. B. McCoy.
Cape May City.	Cape May.	17	34	38.2	—2.6	63	20	18	3	22	5.95	+ 2.22	1.46	8.0	19	9	12	10	n.	U. S. Weather Bureau.
Charlotteburg.	Passaic.	719	20	32.8	—1.9	65	29	8	3†	38	7.12	+ 3.18	1.95	5.5	14	9	12	10	n.	George S. Briggs.
Chatham.	Morris.	234	10	—	—	67	29	11	3	30	9.05	+ 5.18	2.70	6.5	17	12	8	10	w.	M. A. Butler.
Clayton.	Gloucester.	126	19	39.2	—0.6	68	29	16	3†	30	8.36	+ 4.38	1.90	9.0	13	9	12	10	n.	William T. Farley.
Culvers Lake.	Sussex.	848	11	—	—	68	29	13	3	34	7.18	+ 2.73	1.94	7.0	14	8	14	9	n.	Brice E. Riker.
Dover.	Morris.	600	28	33.2	—1.7	65	29	9	3†	34	8.01	+ 4.11	2.12	7.0	15	5	16	10	...	William C. Harris.
Flemington.	Hunterdon.	140	24	37.0	—0.5	68	29	11	2	37	8.38	+ 4.77	1.97	6.5	14	7	14	10	n.	Hiram E. Deats.
Haddonfield.	Camden.	75	25	38.8	—0.4	69	29	14	3	33	7.88	+ 3.99	1.80	6.4	16	8	13	10	n.	Charles F. Richardson.
Hammonton.	Atlantic.	103	14	—	—	67	29	11	3	30	8.09	+ 3.72	2.77	8.0	15	13	13	13	n.	Orville Bassett.
Hightstown.	Mercer.	119	20	38.1	—0.9	68	29	13	3	34	7.97	+ 3.61	1.84	7.0	10	10	8	13	n.	Ernest Wenger.
Highwood.	Bergen.	90	25	36.4	—0.2	69	29	10	3	30	8.81	+ 4.66	2.70	5.5	14	13	13	13	n.	Charles J. Bates.
Imlaytown.	Monmouth.	107	24	37.9	—1.8	68	29	13	3	34	6.41	+ 2.22	1.80	5.8	14	9	13	9	n.	Fred C. Price, M. D.
Indian Mills.	Burlington.	76	23	38.8	—1.0	71	29	13	3	38	8.21	+ 4.11	2.13	7.2	14	12	11	8	n.	James Armstrong.
Jersey City.	Hudson.	10	14	37.8	—0.4	68	29	14	3	26	7.26	+ 3.18	1.90	5.0	14	8	10	13	n.	Samuel K. Pearson, jr.
Lambertville.	Hunterdon.	95	25	37.8	—1.2	69	29	11	6	36	7.85	+ 3.74	1.88	7.0	13	6	16	9	n.	William R. Bowe.
Layton.	Sussex.	550	13	32.6	—1.6	65	31	6	1	41	—	—	—	5.7	10	9	12	12	n.	Warren C. Hursh.
Little Falls.	Passaic.	175	10	—	—	68	29	13	3	30	6.48	+ 2.48	1.54	6.1	12	12	12	12	n.	A. Sweetman.
Long Branch.	Monmouth.	30	5	36.5	—	70	29	13	3	30	9.03	—	2.30	6.4	12	12	12	12	n.	William D. Martin, jr.
Mahwah.	Bergen.	312	10	—	—	67	29	13	3	30	7.52	+ 3.13	2.30	7.0	14	13	13	13	n.	Charles L. Barker.
Newark.	Essex.	140	69	39.2	+ 1.7	69	29	14	3	26	8.45	+ 4.52	3.00	4.9	13	8	11	12	n.	Prof. William Wiener.
New Brunswick.	Middlesex.	100	59	38.1	—0.1	68	29	14	33	9.18	+ 5.27	2.27	4.8	13	10	12	9	11	n.	George B. Thrasher.
Newton.	Sussex.	678	33	33.4	—2.4	65	31	9	1†	34	6.75	+ 3.15	1.86	7.0	13	10	10	11	n.	F. Vernon Losse.
Northfield.	Atlantic.	5	—	—	—	67	29	13	—	—	7.63	—	3.01	7.8	15	10	9	12	n.	William L. Flick.
Paterson.	Passaic.	80	41	37.8	—0.7	70	29	13	3	34	7.78	+ 3.55	1.79	7.0	15	11	12	8	n.	Heber A. Probert.
Philipsburg.	Warren.	363	22	35.5	—2.4	67	18†	12	3	35	7.14	+ 3.49	1.78	5.8	15	8	14	9	n.	D. W. Smith.
Plainfield.	Union.	100	26	37.2	+ 0.6	68	29	13	3	35	8.19	+ 4.38	2.30	5.8	14	7	12	12	n.	John Neagle.
Pleasantville.	Atlantic.	26	14	—	—	67	29	13	3	30	7.80	+ 4.50	3.12	5.5	16	10	10	11	n.	Lincoln Van Gilder.
Pompton Plains.	Morris.	195	10	—	—	68	29	11	3	30	8.30	+ 4.26	2.28	7.5	14	12	12	12	n.	M. S. Taylor.
Riverdale.	Bergen.	70	21	35.3	—0.6	68	18†	11b	3	38b	8.31	+ 4.02	1.90	12.0	12	8	10	13	n.	G. S. M. Holdrum.
South Orange.	Essex.	200	42	36.0	—0.8	69	29	12	3	29	8.05	+ 4.24	2.00	6.5	13	10	8	13	n.	Dr. Wm. J. Chandler.
Sussex.	Sussex.	442	22	33.8	—2.6	66	31	8	6	36	6.10	+ 2.43	1.78	—	14	11	9	11	n.	George Dymock.
Trenton.	Mercer.	63	41	—	—	70*	29	13	1†	35†	8.57	+ 4.23	2.63	5.0	14	8	14	9	n.	James L. Bennett.
Woodbine.	Cape May.	43	21	39.8	—0.3	68*	18†	16	2†	31*	7.17	+ 3.09	3.20	—	15	10	8	13	...	Prof. O. E. Williams.
<i>West Virginia.</i>																				
Bayard.	Grant.	2,500	10	36.0	—2.9	66	19	9	2	41	6.74	+ 1.96	1.41	6.5	16	5	6	20	w.	Solomon Clark.
Burlington.	Mineral.	875	17	40.0	—1.7	75	19	12	2	48	3.30	+ 0.21	0.95	6.0	9	7	15	9	w.	J. W. Vandiver.
Franklin.	Pendleton.	6	41.8	—	—	75	21	6	2	43	—	—	—	—	10	7	5	19	...	Fred Calhoun.
Lost City.	Hardy.	6	39.0	—	—	64	19†	16	2†	30	3.68	—	0.90	5.0	10	10	11	10	w.	B. D. Hinegardner.
Martinsburg.	Berkeley.	435	21	38.4	—2.8	71	19†	16	2	39	6.10	+ 3.13	1.15	4.5	12	13	7	11	n.	G. W. VanMetre, C. E.
Moorefield.	Hardy.	900	15	40.4	—3.3	76	19	18	2	45	4.70	+ 2.33	1.55	3.0	10	9	12	10	sw.	John C. Fisher.
Romney.	Hampshire.	824	16	38.2	—4.8	72	19	17	1†	43	5.54	+ 2.64	1.00	1.5	15	13	8	10	w.	John C. Linthicum.

TABLE 1.—Climatological data for March, 1912. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unimpaired.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Maryland—Continued.																				
Porto Bello.	St. Marys.	38	7	38.0	-2.6	74	29	12	2	39	5.64	+ 2.03	1.37	10.0	11	9	22	se.	Mrs. Clara C. Hyatt.	
Princess Anne.	Somerset.	17	19	42.4	-	70	19	20	2	31	5.64	-	1.37	10.1	14	7	12	nw.	J. R. Stewart.	
Rockville.	Montgomery.	421	5	40.8	-	74	29	17	2	31	5.82	-	1.67	8.0	14	14	4	13	Dr. G. E. Lewis.	
Salisbury.	Wicomico.	23	7	42.9	-	72	19†	19	2	34	6.95	-	1.85	8.0	15	10	14	7	nw.	
Solomons.	Calvert.	20	21	41.8	-2.5	73	29	20	2	30	6.01	+ 2.84	1.85	13.5	14	9	7	15	Dr. W. H. Marsh.	
State Sanatorium.	Frederick.	1,460	4	36.0	-	65	19†	10	3	29	6.02	-	1.60	7.0	13	20	2	9	Geo. F. Knemmer.	
Sudlersville.	Queen Annes.	65	13	40.7	-3.6	71	19†	14	1	31	8.16	+ 4.19	2.20	7.8	16	14	6	11	Henry L. Higman.	
Takoma Park.	Montgomery.	320	14	39.2	-3.8	75	29	15	2†	37	6.49	+ 2.69	1.45	7.0	16	0	20	11	L. M. Mooers.	
Taneytown.	Carroll.	450	13	39.4	-3.4	71	29	15	2†	39	6.31	+ 2.85	1.80	4.2	13	14	10	7	Curtis H. Reid.	
Towson.	Baltimore.	465	4	39.1	-	70	18†	15	3	33	7.39	-	1.99	8.2	10	15	5	11	C. W. E. Treadwell.	
Van Bibber.	Harford.	100	15	39.1 ^b	-2.3	71 ^b	18†	15 ^b	5	37 ^b	8.54	+ 4.44	2.33	-	10	15 ^a	9 ^a	6 ^a	W. Benjamin Ford.	
Westernport.	Allegany.	1,000	18	41.0	+ 0.7	71	29	20	2	34	5.90	+ 2.73	1.40	2.0	12	-	-	-	Prof. O. H. Bruce.	
Westminster.	Carroll.	860	19	38.0 ^b	-1.7	70 ^b	29	13 ^b	2†	34 ^b	5.24 ^b	- 0.21	1.44	4.3	10	16 ^b	6 ^b	7 ^b	Prof. Geo. F. Morelock.	
Woodstock.	Baltimore.	392	38	40.4	0.0	69	20†	16	2	33	6.07	+ 2.22	1.62	7.6	13	22	0	9	nw.	Rev. James F. Dawson, S.J.
Delaware.																				
Delaware City.	Newcastle.	10	10	39.6	-	69	29	16	3	34	6.77	+ 3.33	2.31	7.0	10	18	5	8	nw.	H. Morton Price.
Dover.	Kent.	40	24	40.4	-1.9	70	18†	18	1†	31	8.00	+ 3.68	3.00	11.0	10	12	9	10	ne.	W. C. Josting.
Milford.	do.	20	28	42.1	-2.0	72	19	19	2†	34	7.94	+ 4.07	2.89	12.5	14	16	5	10	nw.	Chas. J. Holkmuller.
Millsboro.	Sussex.	20	20	41.8	-2.2	72	18	18	2	38	6.25	+ 2.41	1.62	2.5	14	14	6	11	ne.	Rev. L. W. Wells.
Seaford.	do.	40	21	41.8	-2.2	70	19	19	2	32	5.80	+ 2.12	1.98	7.5	14	11	9	11	ne.	E. B. Brown.
Wilmington.	Newcastle.	89	...	40.8	-	67	18†	18	10	28	8.17	-	2.32	7.0	14	11	11	9	nw.	Alexander J. Taylor.
District of Columbia.																				
Washington.	Dist. of Columbia.	112	42	40.9	-1.3	76	29	18	2	32	6.14	+ 2.29	1.64	4.4	16	10	9	12	n.	U. S. Weather Bureau.
Virginia.																				
Culpeper.	Culpeper.	450	4	40.5	-	76	29	15	1	36	6.26	-	1.70	11.0	11	10	12	9	s.	Col. H. C. Burrows.
Dale Enterprise.	Rockingham.	1,350	33	40.2	-2.4	73	20†	12	2	43	4.62	+ 1.47	1.65	4.0	13	6	14	11	sw.	Rev. L. J. Heatwole.
Doswell.	Hanover.	134	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Rich., Frdksbg. & Pot. R. R.	
Eastville.	Northampton.	15	2	45.6	+ 0.3	74	18†	23	2	33	5.42	-	1.50	8.0	13	9	10	12	se.	T. B. Robertson.
Fredericksburg.	Spotsylvania.	100	23	43.2	-3.5	76	29	12	2	36	8.02	+ 4.72	2.71	9.8	14	14	6	11	se.	S. G. Howison.
Lincoln.	Loudoun.	500	11	39.6	-5.4	76	31	16	2	41	4.96	+ 1.99	1.21	2.0	10	6	11	14	nw.	Dr. Geo. Roberts.
Mount Weather.	do.	1,726	8	34.6	-2.2	67	29	11	2	25	4.24	+ 0.26	1.08	6.2	17	8	6	17	nw.	U. S. Weather Bureau.
Onancock.	Accomac.	20	1	43.6	-	72	28	22	2	33	6.84	-	1.35	6.0	10	15	4	12	s.	S. F. Rogers.
Quantico.	Prince William.	16	15	42.2	-3.4	75	29	18	2†	38	6.24	-	2.42	6.2	7	11	11	9	nw.	Rich., Frdksbg. & Pot. R. R.
Staunton.	Augusta.	1,380	20	41.8	-3.2	74	21	26	3	36	5.78	+ 2.60	1.73	5.5	11	10	9	12	sw.	Ernest Nothnagel.
Warsaw.	Richmond.	160	20	43.4	-3.0	75	29	19	2	32	6.68	+ 2.95	2.20	10.0	10	6	12	13	n.	C. H. Constable.
Woodstock.	Shenandoah.	927	16	40.7	-4.4	70	18	17	3	38	3.21	+ 2.27	1.03	4.5	14	11	6	14	w.	Mrs. A. G. Artz.

^a, ^b, ^c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1912. District No. 1, North Atlantic States.*

TABLE 2.—*Daily precipitation for March, 1912. District No. 1—Continued.*

Stations.	Watershed.	Day of month.																														Total			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>Rhode Island—Con.</i>																																			
Kingston.....	Coast.....																																		9.59
Narragansett Pier.....	do.....																																	8.86	
Pawtucket.....	do.....																																	6.91	
Providence.....	do.....																																	6.36	
Walton Lake.....	do.....																																	8.10	
<i>Connecticut.</i>																																			
Bridgeport.....	Coast.....																																	7.96	
Caston.....	Connecticut.....																																	6.87	
Chester.....	Coast.....																																	8.27	
Cream Hill.....	Housatonic.....																																	4.80	
Danielson.....	Coast.....																																	8.17	
Falls Village.....	Housatonic.....																																	5.05	
Hartford.....	Connecticut.....																																	7.29	
Hawleyville.....	Housatonic.....																																	8.18	
Lake Konomoc.....	Coast.....																																	8.67	
New Haven.....	do.....																																	9.15	
New London.....	do.....																																	6.90	
North Grosvenor Dale.....	do.....																																	6.56	
Norwalk.....	do.....																																	8.55	
Southampton.....	do.....																																	8.45	
South Manchester.....	Connecticut.....																																	6.44	
Stots.....	Coast.....																																	7.29	
Torrington.....	Housatonic.....																																		
Voluntown.....	Coast.....																																	7.42	
Wallingford.....	do.....																																	9.82	
Waterbury.....	Housatonic.....																																	7.87	
West Simsbury.....	Connecticut.....																																	5.84	
<i>New York.</i>																																			
Addison.....	Susquehanna.....																																	2.91	
Albany.....	Hudson.....																																	3.71	
Alfred.....	Susquehanna.....																																		
Amsterdam.....	Mohawk.....																																	3.52	
Athens.....	Hudson.....																																	5.17	
Bainbridge II.....	Susquehanna.....																																		
Ballston Lake.....	Hudson.....																																	4.24	
Bedford.....	Coast.....																																	7.86	
Beerston.....	Hudson.....																																	4.36	
Binghamton.....	Susquehanna.....																																	3.37	
Blue Ridge.....	Hudson.....																																		
Bouckville.....	Susquehanna.....																																	2.13	
Carmel II.....	Hudson.....																																	7.60	
Chatham.....	do.....																																	3.84	
Cooperstown.....	Susquehanna.....																																	4.41	
Corinth II.....	Hudson.....																																	5.46	
Cortland.....	Susquehanna.....																																	2.78	
Cutchogue.....	Coast.....																																	8.98	
De Ruyter.....	Susquehanna.....																																	1.90	
Elmira.....	do.....																																	3.24	
Ephratah.....	Mohawk.....																																	4.87	
Glens Falls.....	Hudson.....																																	3.19	
Gloversville.....	do.....																																		
Greene II.....	Susquehanna.....																																		
Greenfield Center.....	Hudson.....																																	5.49	
Greenwich.....	Delaware.....																																	3.76	
Griffin Corners.....	Delaware.....																																	3.83	
Hancock II.....	do.....																																	2.28	
Haskinville.....	Susquehanna.....																																	3.88	
Homer.....	do.....																																	4.35	
Hoosick Falls II.....	Hudson.....																																	2.15	
Indian Lake.....	do.....																																	5.07	
Jeffersonville.....	Delaware.....																																		
Knowelhurst.....	Hudson.....																																		
Little Falls.....	Mohawk.....																																	2.42	
Mechanicsville II.....	Hudson.....																																	4.41	
Mohonk Lake.....	do.....																																		

TABLE 2.—*Daily precipitation for March, 1912. District No. 1—Continued.*

TABLE 2.—*Daily precipitation for March, 1912. District No. 1—Continued.*

* Precipitation included in that of the next measurement.

[†] Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.
T Precipitation is less than 0.01 inch rain or melted snow.

1. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for March, 1912. District No. 1, North Atlantic States.

Date.	Maine.										Concord, N. H.	Massachusetts.								Provi- dence, R. I.	Connecticut.							
	Eastport.		Greenville.		Orono.		Portland.		Presque Isle.			Amherst.		Boston.		Middle- boro.		Nan- tucket.			Cream Hill.		Hartford.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.				
1....	23	6	17	0	26	-5	26	6			22	8	24	5	28	10	31	18	30	10	31	21	28	15	24	8	128	17
2....	22	10	14	3	26	7	24	10			18	10	20	12	24	10	27	14	28	14	25	17	25	14	20	8	24	15
3....	25	10	15	-4	27	3	25	8			29	4	22	7	28	8	28	12	29	10	26	15	28	11	19	4	28	11
4....	18	2	16	-10	21	-14	20	4			23	-10	24	-1	27	6	24	11	29	10	29	20	32	11	28	4	29	11
5....	14	5	15	-7	26	1	20	8			22	-5	25	6	26	13	25	19	26	17	28	22	26	14	29	6	26	15
6....	28	6	27	-14	28	-20	30	3			28	-10	30	-9	34	1	30	15	30	0	33	22	30	9	26	5	31	8
7....	32	25	34	-7	31	-4	32	23			38	6	37	22	42	26	36	28	37	33	35	28	42	20	40	26		
8....	36	31	47	3	41	15	38	23			42	11	47	28	44	32	47	33	46	32	38	33	44	33	40	28	43	34
9....	34	31	37	26	43	31	40	33			40	30	43	30	40	28	49	33	44	31	33	47	34	36	30	43	31	
10....	31	25	27	18	37	19	37	24			32	20	33	20	34	20	38	23	42	35	37	27	38	24	30	15	34	23
11....	33	17	29	5	34	8	37	20			32	14	36	17	40	17	41	22	39	20	38	23	39	20	36	11	40	20
12....	37	21	34	1	36	8	36	26			34	10	33	21	34	29	41	32	38	24	44	32	45	32	34	24	38	30
13....	45	32	38	26	44	32	44	33			41	31	43	33	40	34	54	37	56	37	50	34	54	36	54	30	44	34
14....	47	30	42	22	45	29	49	34			42	26	46	33	45	27	52	34	50	30	43	32	49	31	43	23	48	30
15....	51	34	33	22	45	9	46	34			34	30	38	32	48	32	62	35	55	32	52	34	60	35	48	30	60	33
16....	51	29	37	21	51	32	44	33			42	26	45	28	45	28	56	38	60	43	48	34	50	35	44	30	55	33
17....	41	26	42	9	44	19	43	27			44	18	53	23	52	24	55	34	51	22	47	32	47	30	45	24	51	28
18....	42	35	44	27	46	34	54	34			49	25	58	35	57	35	62	38	54	30	52	39	54	38	57	34	56	38
19....	45	34	44	28	49	30	46	33			45	34	58	29	57	28	59	37	53	24	52	33	49	33	49	35	56	33
20....	51	14	40	11	50	32	54	18			44	16	51	18	50	22	57	23	57	40	54	28	55	24	44	23	53	26
21....	22	10	19	2	41	10	19	15			22	10	22	14	23	16	25	19	46	18	32	24	25	17	26	11	26	18
22....	32	17	23	11	32	19	32	18			27	18	31	17	32	16	35	20	35	28	33	19	31	12	32	19		
23....	35	17	29	8	34	15	37	19			34	17	39	17	40	11	41	22	38	15	37	26	38	18	35	11	39	19
24....	33	27	29	15	37	22	32	27			34	24	33	25	33	26	37	31	42	29	47	31	38	30	32	23	33	27
25....	30	16	23	15	37	21	33	17			30	17	33	14	35	14	38	21	31	36	28	38	21	34	20	37	23	
26....	31	12	28	0	34	0	32	12			31	4	37	5	34	2	38	19	35	13	40	24	38	7	38	18		
27....	44	30	37	18	44	24	45	28			42	23	47	24	48	28	53	36	52	35	51	35	48	19	51	34		
28....	53	33	44	15	50	25	55	30			48	17	56	23	57	28	60	41	59	31	55	36	59	40	54	32	60	39
29....	47	37	37	27	51	32	47	37			43	34	46	33	46	36	61	42	56	41	50	41	53	37	62	39		
30....	40	28	32	14	50	21	46	30			37	23	43	29	54	30	53	34	56	34	44	32	53	35	40	28	55	37
31....	43	24	47	9	51	19	58	25			51	16	58	22	60	26	64	53	53	25	47	32	59	32	60	30	63	33
Mns..	36.0	21.7	31.7	10.1	38.5	15.3	38.2	22.3			35.5	16.0	39.1	19.9	40.5	21.4	44.5	27.6	44.0	25.1	41.4	29.0	42.6	26.2	38.7	20.1	42.7	25.9

Date.	New York.										Everett.	Pennsylvania.								Atlantic City, N.J.								
	New Haven, Conn.		Addison.		Albany.		Binghamton.		Indian Lake.			Little Falls.		New York.		Harris- burg.		Philadel- phia.		Scranton.		State College.		Wells- boro.				
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
1....	30	19	24	8	26	13	21	10	16	-10	19	5	32	21	33	15	29	20	33	23	23	17	19	14	24	6	35	22
2....	27	16	20	9	22	12	17	9	15	-15	14	10	27	15	25	12	26	17	29	19	20	12	18	10	19	9	30	18
3....	29	13	20	3	21	7	15	6	18	-11	14	-4	29	13	30	15	32	17	20	10	23	7	20	2	32	17		
4....	31	14	32	4	21	5	30	3	22	-21	18	-3	33	21	25	20	26	19	28	23	20	13	26	11	31	24		
5....	30	18	28	0	19	8	20	2	25	-13	16	7	26	16	28	19	28	18	32	21	25	12	24	4	31	23		
6....	30	13	30	3	30	3	20	-7	29	-27	23	-4	32	20	30	15	29	15	33	21	31	12	26	26	23	23		
7....	43	28	50	26	41	25	42	26	46	13	37	20	46	31	47	21	48	29	43	28	45	22	44	24	39	31		
8....	38	33	44	26	45	27	46	26	43	12	38	25	42	34	43	26	42	33	43	35	38	32	40	32	45	32		
9....	45	29	40	26	37	24	37	17	39	23	35	18	45	27	39	28	39	27	45	43	35	38	32	45	29	45	29	
10....	35	25	32	12	28	19	24	13	26	7	22	11	34	23	32	14	35	20	37	24	29	15	30	9	36	25		
11....	41	22	38	10	37	16	36	13	38	-2	30	7	40	22	38	24	36	23	38	25	38	18	35	14	36	10		
12....	46	31</td																										

TABLE 3.—*Maximum and minimum temperatures for March, 1912. District No. 1—Continued.*

Date.	New Jersey.								Martinsburg, W. Va. ^{§§}	Maryland.								Millsboro, Del.	Washington, D. C.	Virginia.									
	Bridgeton.		Hightstown.		Phillipsburg.		Sussex.			Baltimore.		Darlington.		Frederick.		Western Port.					Fredericksburg.		Staunton. ^{§§}		Woodstock.				
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	36	20	24	16	29	17	28	12	33	24	35	23	33	21	34	25	35	25	38	26	35	22	41	22	38	22	40	22	
2....	32	18	29	16	27	15	23	14	32	20	30	15	32	16	35	20	33	18	36	12	40	15	37	12	40	15	37	18	
3....	33	16	32	13	30	12	27	10	31	17	29	19	32	14	28	18	29	23	32	20	30	23	38	23	26	20	34	17	
4....	30	21	30	20	30	16	30	12	31	19	30	23	29	20	29	23	30	25	31	24	28	23	31	21	33	20	31	20	
5....	33	19	32	15	34	16	28	11	32	23	32	25	31	19	36	28	35	25	34	26	36	26	36	28	36	26	36	25	
6....	35	21	33	16	29	13	27	8	29	22	34	22	32	18	29	20	33	27	37	26	33	23	34	23	31	21	29	20	
7....	40	29	45	27	43	26	44	25	45	24	50	30	49	18	47	28	47	30	40	31	49	29	49	28	45	24	45	28	
8....	48	34	48	30	40	31	41	29	41	27	40	32	46	31	40	29	48	30	46	36	44	32	48	29	46	22	48	24	
9....	42	36	44	34	38	25	38	32	39	35	42	32	38	34	41	34	40	25	45	35	41	30	45	38	47	38	44	30	
10....	39	22	36	21	36	18	32	17	40	20	40	25	37	21	39	21	36	24	39	24	40	23	45	23	40	19	44	19	
11....	42	22	41	21	40	19	41	17	40	21	38	26	38	20	41	21	46	24	42	21	43	25	42	26	40	23	43	30	
12....	48	30	45	29	37	30	35	28	41	26	41	30	36	31	39	31	40	35	55	31	40	42	30	42	28	38	30	30	
13....	52	39	52	39	40	33	42	33	46	35	49	38	46	36	48	34	40	35	51	39	51	38	56	37	56	35	50	34	
14....	53	28	48	27	48	29	45	27	51	28	48	33	50	25	50	29	53	37	54	28	52	30	56	28	56	27	54	25	
15....	60	37	61	34	59	35	55	32	54	29	58	39	58	36	48	35	52	42	62	39	60	41	62	57	43	55	40		
16....	58	37	61	36	50	32	52	32	52	35	51	38	55	34	51	34	51	35	59	34	51	36	59	38	54	34	55	34	
17....	58	30	59	25	57	26	54	25	59	28	54	35	55	29	58	27	61	33	57	28	59	29	61	27	60	29	62	27	
18....	70	37	65	42	67	39	62	38	67	32	69	42	69	38	69	34	64	35	72	39	71	39	73	40	69	37	70	32	
19....	62	39	64	31	64	30	59	28	71	32	64	43	67	33	69	32	70	36	68	42	71	39	74	41	72	36	72	35	
20....	65	48	59	44	51	30	50	33	58	37	64	39	60	48	65	49	66	47	71	47	65	43	71	55	73	43	70	47	
21....	50	31	44	25	30	23	34	18	43	33	39	32	53	29	53	31	61	38	50	37	43	33	64	38	74	43	54	33	
22....	43	30	37	24	37	22	34	19	40	32	41	32	38	29	42	33	53	32	45	31	42	33	48	39	55	40	53	34	
23....	46	24	44	19	43	19	42	15	47	22	41	28	40	25	46	24	49	26	43	26	45	27	46	29	40	30	47	25	
24....	43	34	39	32	35	31	35	30	40	27	41	34	43	23	39	33	40	35	52	36	44	34	48	35	58	31	47	31	
25....	44	35	44	33	38	24	36	26	45	32	45	35	40	31	45	31	43	33	49	32	44	33	49	33	50	32	47	30	
26....	50	22	49	26	46	20	39	16	60	27	51	30	42	33	57	26	54	34	55	26	60	28	61	36	52	25	59	24	
27....	63	38	58	33	56	30	57	28	62	29	59	43	51	24	61	38	60	30	58	40	64	68	34	63	48	53	38		
28....	64	39	61	41	58	40	60	35	59	40	59	44	60	36	61	39	58	41	67	40	62	63	59	44	63	58	38		
29....	72	41	69	45	67	42	63	40	69	41	72	48	67	46	71	48	71	48	71	51	76	59	60	47	60	34			
30....	62	37	61	36	63	34	60	33	61	39	56	43	61	39	61	38	61	40	56	39	61	41	68	42	64	40	63	47	
31....	68	33	65	31	66	31	66	30	71	37	68	41	68	35	69	36	70	38	70	32	69	40	70	36	70	37	70	48	
Mns.	49.7	30.5	48.0	28.2	44.9	26.1	43.2	24.3	48.0	28.7	47.5	33.0	46.9	28.7	48.1	30.2	49.4	32.6	51.1	32.4	49.6	32.2	53.4	33.9	52.3	31.2	50.9	30.6	

^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.